

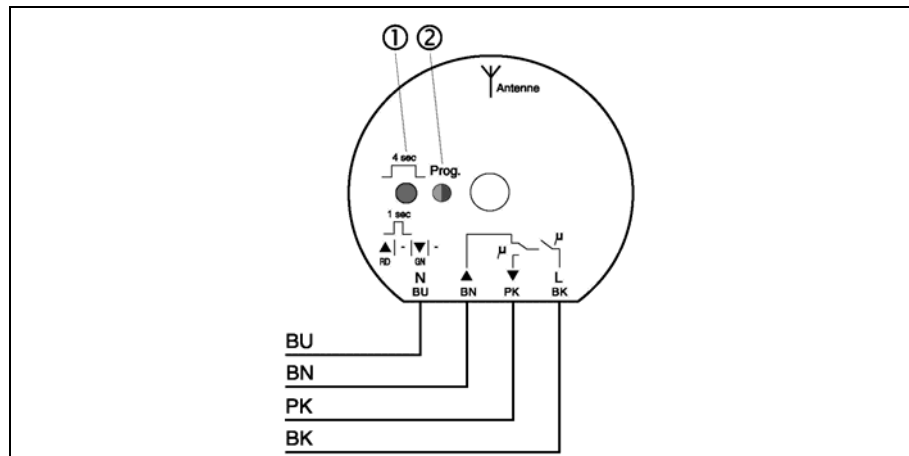
Operating Instructions Radio Venetian Blind Actuator



1. Function

The radio venetian blind actuator facilitates the radio control of a venetian or roller blind motor, respectively. Depending upon the actuation of a radio transmitter, the blades are adjusted (short key depression of < 1 s) or the venetian blind is moved (long key depression of > 1 s), respectively.

The radio venetian blind actuator can learn up to 14 different radio transmitters. The device has a programming key (Fig. A (1)) and a two-colour programming LED ②



1.1. Lightscapes

The end position of a venetian blind (uppermost, lowermost positions) can be integrated into up to five different lightscapes, together with lights. The desired lightscape key of the hand-held or wall-mounted radio transmitter must be programmed into the radio actuator.

2. Mounting

Warning

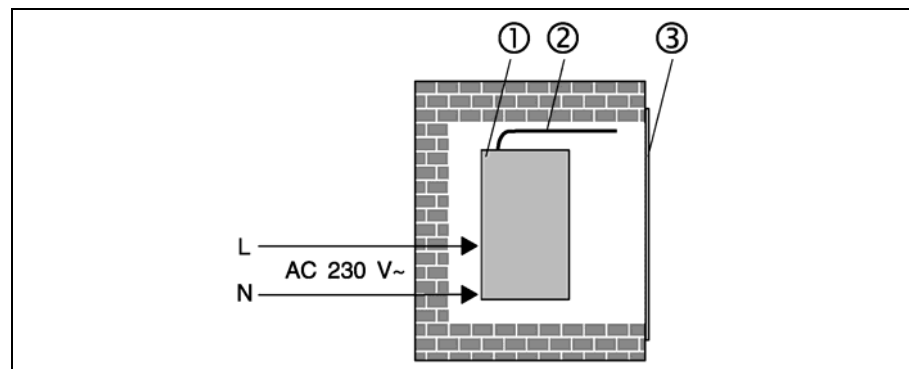


Caution: The installation and assembly of electrical equipment may only be performed by a skilled electrician.

As the device is provided with base insulation only, the standards prescribe that the programming and clearing of radio transmitters as well as the test run of the device must also be performed by a skilled electrician. This shall only apply if parts of the electrical system have to be opened for this purpose.

After connecting the device to the mains, the wires to the load will be live for a short time. Unused lines must therefore be insulated.

Install the radio venetian blind actuator (Fig. B 1) in a flushmounted box behind a false cover (3).



For applications outside the flush-mounted box, ensure sufficient protection against contact such as by installation into a surfacemounted distribution box. When installing the device the inscription side must be in front.

The radio venetian blind actuator has been exclusively designed for switching venetian or roller blind motors, respectively. Any other usage may entail danger (e. g. rolling door control).

Use venetian or roller blinds, respectively, with mechanical or electronic limit switches only.

Due to the electronic locking of the device, a minimum switchover time of approx. 1 sec. is achieved for direction changing.

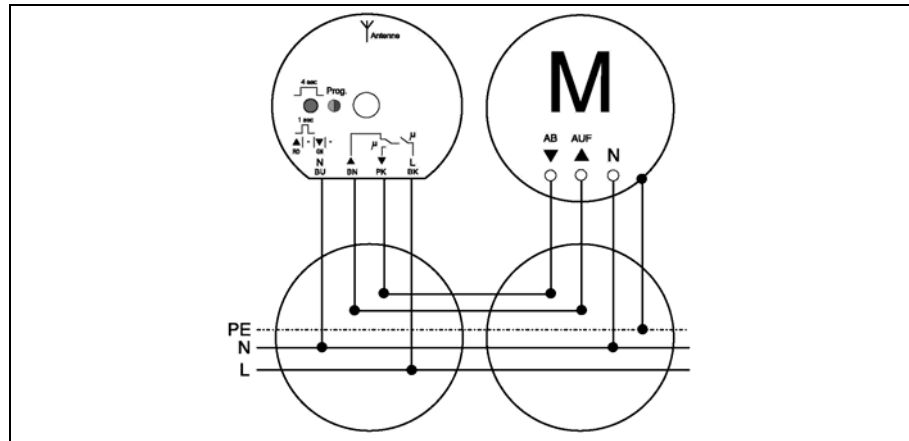
Please observe the instructions of the motor manufacturers with respect to switch-over time and maximum duty cycle.

2.1. Antenna

To achieve maximum receiver sensitivity, install the antenna (Fig. B ②) in a freely extended way, i. e. not wound up. Since the antenna has only basic insulation, it must not be laid outside the flush-mounting or surface-mounting box. Keep distance from large-surface metallic parts (e. g. metallic door frames). Do not clip, strip or extend the antenna.

3. Installation

Connect the radio venetian blind actuator as shown in Fig. C.



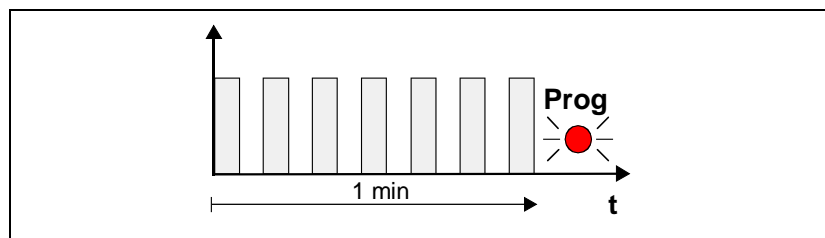
- ① The distance from electrical loads (e. g venetian or roller blind motor, hifi and TV systems) must be at least 0.5 m.
- ① To avoid overmodulation of the radio receiver (actuator), the distance between the radio venetian blind actuator and a transmitter must be at least 1 m.

4. Learning a Radio Transmitter

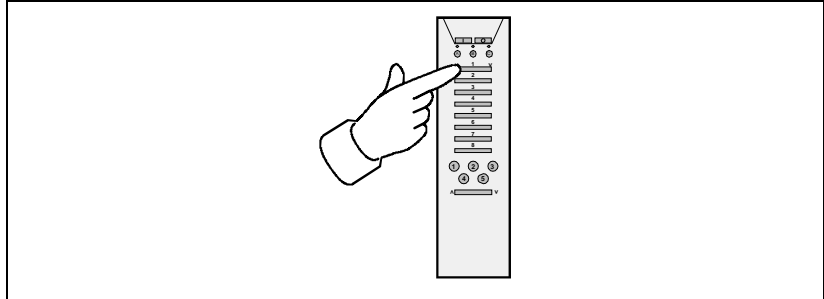
When learning a radio transmitter, the sensitivity of the radio receivers is reduced to some 5 m. Consequently, the distance between the radio venetian blind actuator and the radio transmitter to be learned should be between 0.5 m and 5 m.

Procedure

1. Press the programming key for approx. 4 s to get into the programming mode. The LED will blink red for about 1 minute (Fig. D). During this time, a radio channel can be learned.



2. Trigger a radio telegram on the selected radio transmitter. Refer to Radio Transmitter Operating Instructions (Fig. E):



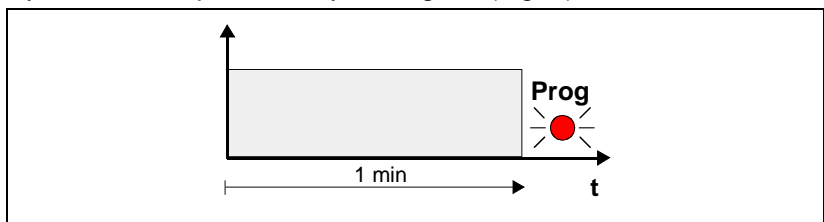
Learning a channel

Press the channel key for longer than 1 s..

Learning a lightscape key

Press the lightscape key for longer than 3 s.

3. The radio venetian blind actuator will acknowledge the storage by the red LED permanently shining red (Fig. F).

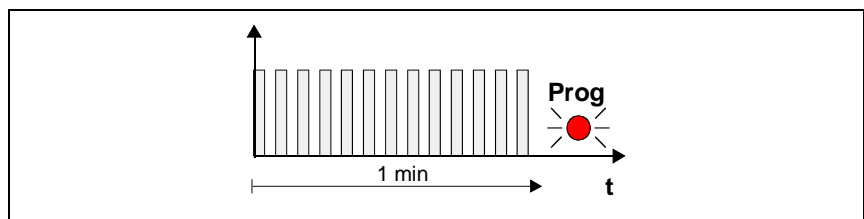


4. You can automatically exit the programming mode after approx. 1 minute, or by shortly pressing the programming key. The radio venetian blind actuator will then be in the operating mode.

- ① If all 14 memory locations are occupied, you will have to clear a radio transmitter already stored to learn a new one.

4.1. Clearing a Radio Transmitter

Clearing a stored radio transmitter can be effected by another learning process for the same radio transmitter (see above). All channel and lightscape keys must be cleared individually. Successful clearing is indicated by the red LED blinking more quickly (Fig. G).



5. Lightscape

The end position of a venetian blind can be stored in a lightscape, together with lights. Such lightscape can be changed any time by restoring it.

Prior to storing or calling a lightscape, the lightscape key of the radio transmitter must be learned.

Refer to „Learning a Lightscape Key“.

5.1. Storing a lightscape

1. Press a stored channel key to move the venetian blind to the desired end position..
 2. Press the desired lightscape key of the radio transmitter for at least 3 s.
- ① If the venetian blind is not at or not on the way to an end position during the storing procedure, this venetian blind will not be stored in the lightscape.

6. Test Run

Press the programming key in successive short intervals (< 1 s) to test the radio venetian blind actuator after installation.

The following states will be passed through one by one:

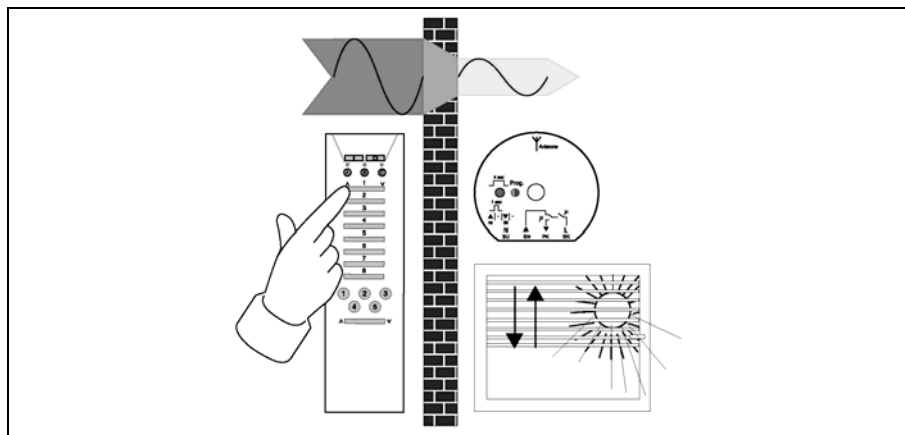
Nr.	Reaction	LED
1	Venetian blind moving up (2 min.)	Red
2	Stop	OFF
3	Venetian blind moving down (2 min.)	green
4	Stop	OFF

7. Radio Transmission

Radio transmission takes place on a non-exclusive path. Therefore, interference cannot be excluded. This type of radio transmission is not suitable for safety applications such as emergency stops or emergency calls.

The range of a radio-control system depends on transmitter power, receiver characteristics, air humidity, fitting height and building conditions. Fig. H illustrates the penetration of building materials by radio waves:

Dry material	Permeability
Timber, gypsum, gypsum-plasterboards	approx. 90 %
Brickwork, particle boards	approx. 70 %
Reinforced concrete	approx. 30 %
Metal, metal grating, aluminium lamination	approx. 10 %
Rain, snow	approx. 0 – 40 %



Radio operation

- The inter-connection of this radio system with other communication networks must comply with national legislation.
- This radio system must not be used for communication beyond property boundaries.
- If utilized in conformity with its designated use, this unit fulfils the requirements of the R&TTE Directive (1999/5/EC). The complete declaration of conformity can be found in the Internet under: www.jung.de/ce.

The radio-venetian blind actuator may be operated in all countries of the EU and the EFTA.

Specifications

Rated voltage	: AC 230 V~, 50/60 Hz (neutral conductor required)
Automatic cut-out	: 10 A
Switching capacity	: max. 1 Motor 700 W
Relay output	: 2 n. o. contacts (potential carrying and interlocked))
Switch-over time for	direction change : ca. 1 s
Continuous operation	: ca. 2 min
Receiving frequency	: 433,42 MHz, ASK
Protective system	: IP 20
Dimensions (Ø x H)	: 52 x 23 mm
Centre hole diameter Ø	: 7,5 mm
Temperature range	: ca. -20 °C bis +55 °C
Rel. atmospheric humidity	: 0 % bis 65 %

Subject to technical modifications.

8. Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

ALBRECHT JUNG GMBH & CO. KG

Service-Center

Kupferstr. 17-19

D-44532 Lünen

Service-Line: 0 23 55 . 80 65 51

Telefax: 0 23 55 . 80 61 89

E-Mail: mail.vki@jung.de

General equipment

Service-Line: 0 23 55 . 80 65 55

Telefax: 0 23 55 . 80 62 55



E-Mail: mail.vkm@jung.de

instabus EIB equipment

Service-Line: 0 23 55 . 80 65 56

Telefax: 0 23 55 . 80 62 55

E-Mail: mail.vkm@jung.de

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